

ABSTRACT OF THE DISCLOSURE

Electrical connection of superconducting lines can be achieved by using a low-melting point metal, by
5 mechanical contact of superconducting lines or by welding. According to these methods, however, critical current and critical magnetic field at the connection point are low, and stable connection in a superconducting state has been difficult. The present
10 invention solves these problems and provides a structure and method for connecting superconducting lines. The present invention provides high-performance, high-stability connection of superconducting lines through magnesium diboride (MgB_2) powder arranged
15 between superconducting lines.

SELECTED FIGURE: FIG. 2